



Kathleen Sebelius, Governor  
Roderick L. Bremby, Secretary

DEPARTMENT OF HEALTH  
AND ENVIRONMENT

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Division of Environment

## DIRECTIVE

July 20, 2007

Curt Miller, Mayor  
City of Pretty Prairie  
119 West Main  
PO Box 68  
Pretty Prairie, Kansas 67570

Re: Public Water Supply: Nitrate MCL Non-Compliance  
**Federal ID No.: KS2015501**  
**State ID No.: T4000**

Dear Mayor Miller and City Council Members:

Drinking water delivered by the city of Pretty Prairie from Well 05/Treatment Plant 001 (Site ID #00123378) to its customers continues to exceed the maximum contaminant level (MCL) of 10 mg/L established for nitrate. The exceedance of the nitrate MCL has resulted in continuous violation of K.A.R. 28-15a-62. A summary of monitoring results is attached to this Directive.

A Nitrate Consent Order previously issued to the City on August 20, 1996 did not result in compliance and has since expired. Therefore, in order to address the continued violations, the city of Pretty Prairie is hereby directed to:

1. Sample the water for nitrate at least once every three months (quarterly). The sampling frequency shall be increased to either monthly or weekly if instructed to do so in writing by KDHE. The City may use the KDHE laboratory or a KDHE-certified private laboratory for analysis. If a private laboratory is used, nitrate results shall be submitted to KDHE - Bureau of Water by the 10<sup>th</sup> day of January, April, July and October for the previous quarter.
2. When test results indicate the nitrate levels exceed the MCL of 10 mg/L at the point of entry, the city of Pretty Prairie shall take the following actions:
  - a. Issue public notice to all customers served **as soon as possible within 24 hours** in accordance with K.A.R. 28-15a-202. Copies of the notice shall be furnished to the county health department. A copy of the notice is also required to be submitted to the KDHE within 10 days of delivering such notice to your customers.

- b. Provide, free of charge, an alternate source of drinking water for all infants less than six months of age, mothers who are nursing infants less than six months of age, and pregnant women. The drinking water provided must meet the requirements of K.A.R. 28-15a-23. If bottled water is chosen to meet this requirement, the city of Pretty Prairie shall obtain a certification from the bottled water supplier that the bottled water meets the appropriate requirements of the U.S. Food and Drug Administration (FDA).
3. The city of Pretty Prairie shall obtain the services of a Kansas-licensed professional engineer to prepare a formal feasibility study, including cost estimates to comply with the nitrate MCL. The city of Pretty Prairie shall submit the Feasibility Study to the KDHE by **December 20, 2007**. The city of Pretty Prairie and the KDHE will jointly review the results of the feasibility study and determine a course of action. At a minimum, the feasibility study shall address the following options:
  - a. Obtaining a new source of raw water,
  - b. Obtaining water of acceptable quality from another public water supply,
  - c. Treatment options to reduce nitrate, including the feasibility of blending existing sources of water to produce acceptable quality water, and
  - d. If a new source can be obtained, minimizing the use of, or removing from service, the individual water well causing the problem.

Please submit the above mentioned items to the KDHE; Public Water Supply Section at 1000 SW Jackson, Suite 420; Topeka, KS 66612 as indicated. If you have any questions or need any assistance regarding this matter, please contact Kelly Kelsey at (785) 296-6297.

Sincerely,



Karl W. Mueldener, P.E.  
Director, Bureau of Water

Attachment

KWM:kdk

pc: Reno County Health Department  
KDHE-SCDO  
DRP/PJC/DCS/1.0 File

# ATTACHMENT

Nitrate results in **red bold type** are in violation of the MCL.

## SUMMARY OF NITRATE RESULTS 1995 – Present

FEDERAL ID	SYSTEM NAME	COLLECT DATE	ANALYTE	RESULT	UNIT
KS2015501	PRETTY PRAIRIE, CITY OF	June 19, 2007	NITRATE	13	MG/L
KS2015501	PRETTY PRAIRIE, CITY OF	March 13, 2007	NITRATE	14	MG/L
KS2015501	PRETTY PRAIRIE, CITY OF	May 1, 2006	NITRATE	13	MG/L
KS2015501	PRETTY PRAIRIE, CITY OF	March 20, 2006	NITRATE	12	MG/L
KS2015501	PRETTY PRAIRIE, CITY OF	January 10, 2006	NITRATE	12	MG/L
KS2015501	PRETTY PRAIRIE, CITY OF	October 12, 2005	NITRATE	7	MG/L
KS2015501	PRETTY PRAIRIE, CITY OF	August 1, 2005	NITRATE	10	MG/L
KS2015501	PRETTY PRAIRIE, CITY OF	May 31, 2005	NITRATE	12	MG/L
KS2015501	PRETTY PRAIRIE, CITY OF	February 14, 2005	NITRATE	12	MG/L
KS2015501	PRETTY PRAIRIE, CITY OF	December 6, 2004	NITRATE	11	MG/L
KS2015501	PRETTY PRAIRIE, CITY OF	August 23, 2004	NITRATE	12	MG/L
KS2015501	PRETTY PRAIRIE, CITY OF	June 12, 2004	NITRATE	12	MG/L
KS2015501	PRETTY PRAIRIE, CITY OF	February 23, 2004	NITRATE	10	MG/L
KS2015501	PRETTY PRAIRIE, CITY OF	April 7, 2003	NITRATE	12	MG/L
KS2015501	PRETTY PRAIRIE, CITY OF	September 25, 2000	NITRATE	12	MG/L
KS2015501	PRETTY PRAIRIE, CITY OF	August 24, 2000	NITRATE	12	MG/L
KS2015501	PRETTY PRAIRIE, CITY OF	January 31, 1997	NITRATE	11	MG/L
KS2015501	PRETTY PRAIRIE, CITY OF	May 16, 1996	NITRATE	16	MG/L
KS2015501	PRETTY PRAIRIE, CITY OF	May 16, 1996	NITRATE	11	MG/L
KS2015501	PRETTY PRAIRIE, CITY OF	March 26, 1996	NITRATE	11	MG/L
KS2015501	PRETTY PRAIRIE, CITY OF	March 26, 1996	NITRATE	13	MG/L
KS2015501	PRETTY PRAIRIE, CITY OF	October 25, 1995	NITRATE	10	MG/L
KS2015501	PRETTY PRAIRIE, CITY OF	September 27, 1995	NITRATE	14	MG/L
KS2015501	PRETTY PRAIRIE, CITY OF	September 26, 1995	NITRATE	11	MG/L
KS2015501	PRETTY PRAIRIE, CITY OF	July 28, 1995	NITRATE	10	MG/L
KS2015501	PRETTY PRAIRIE, CITY OF	June 28, 1995	NITRATE	16	MG/L
KS2015501	PRETTY PRAIRIE, CITY OF	June 28, 1995	NITRATE	11	MG/L
KS2015501	PRETTY PRAIRIE, CITY OF	April 19, 1995	NITRATE	13	MG/L
KS2015501	PRETTY PRAIRIE, CITY OF	April 19, 1995	NITRATE	10	MG/L
KS2015501	PRETTY PRAIRIE, CITY OF	March 30, 1995	NITRATE	11	MG/L
KS2015501	PRETTY PRAIRIE, CITY OF	March 30, 1995	NITRATE	15	MG/L
KS2015501	PRETTY PRAIRIE, CITY OF	March 30, 1995	NITRATE	16	MG/L